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USSR: Grain Crop Issues	
Resources Division	25X1
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27 July 1982	
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USSR: Grain Crop Issues

## Key Judgments

Prolonged drought in the main spring grain area east of the Volga Valley has
further eroded prospects for the 1982 Soviet grain crop. As a result, we now
estimate that the grain harvest this year will amount to only about
165 million tons. The crop could be even smaller. Another bout of hot, dry
weather could lower spring grain yields, and problems at harvest could result
in additional losses, perhaps even pushing the crop below last year's
unofficially reported level of 158 million tons. 25X1

Moscow's long-range plans to become less dependent on grain imports from the West have thus been thwarted again. We expect the USSR to import up to 50 million tons of grain in the marketing year ending 30 June 1983 at a cost of \$6-6.5 billion. The capacity of the Soviet rail system—not the availability of hard currency—will keep Moscow from importing more. As a result, the USSR's grain supply will fall some 15 million tons short of needs.

with bumper harvests and record stocks expected in key exporting countries, the USSR should experience no difficulty lining up imports. While the USSR is likely to buy as much as a third of this grain from the United States, the entire amount probably could be obtained from non-US suppliers, at some additional cost and risk. Soviet grain buyers have been largely out of the market for the past two months. We expect Soviet purchasing to resume soon, however. US grain companies are counting on such purchases during the next few months to pull the US grain market out of the doldrums.

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USSR: Grain Crop Issues

#### Introduction

Prospects for the 1982 Soviet grain crop have worsened considerably over	er
the past two months. Since Late May a potential grain harvest of perhaps	
220 million tons has steadily deteriorated to about 165 million tons and cou	ıld
drop still further. This paper examines current crop prospects, Moscow's	
import options, and the USSR's buying strategy in dealing with the expected	
grain shortfall. 25	5X1

#### Soviet Grain Crop Prospects

A period of hot, dry wind, or <u>sukhovey</u>, from 13 to 21 June cut potential yields of both winter and spring grains markedly. The <u>sukhovey</u> moved east from the Volga Valley across the main spring wheat belt in the southern Urals, northern Kazakhstan, and western Siberia. A second period of abnormally hot, dry weather during the first two weeks in July speeded up the ripening process of the grain plants—mostly wheat and barley—seriously damaging the plants during the critical flowering stage when grain kernels were forming. The combination of extremely low soil moisture reserves, lack of precipitation, and dessicating winds almost assuredly resulted in stunted grain plants and smaller grain heads with fewer kernels.

[evidence 25X1]

the dry conditions—large areas of blowing dust in the southern Urals and grass fires in parts of Kazakhstan. Recent showers have probably limited the damage but came too late to permit the plants to recover.

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With the exception of a few areas—Belorussia, the republics in central Asia, and the Central Black Earth region of the Russian Republic—almost no grain region has escaped significant crop damage this year.

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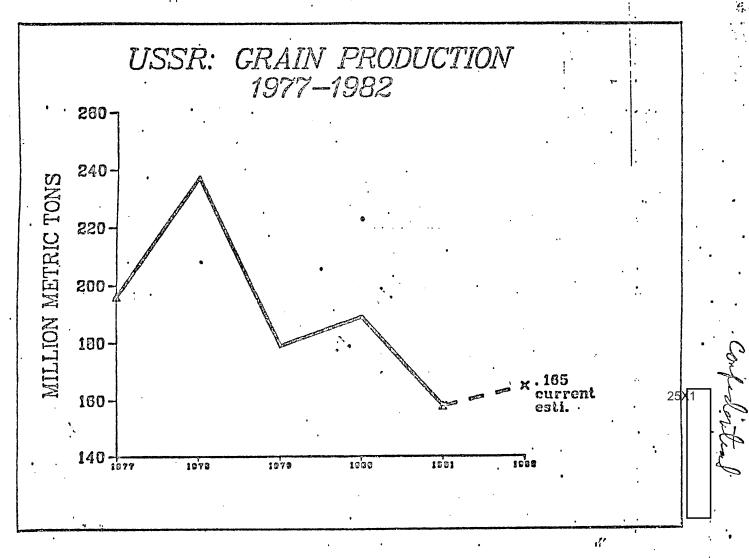


Table 1

USSR: Grain Production\* (million tons)

	Average			Pi	celiminary	Forecast
	1976-80	1978	1979	1980	1981	1982
Grain						
Production	205.0	237.4	179.2	189.1	158.0	165.0
Ву Туре						
wheat	99.7	120.9	90.2	98.2	81.0	83
coarse	95.1	103.2	81.4	80.7	68.0	73
other	10.2	13.3	7.6	10.2	8.0	9 .
By Republic						
RSFSR	113.9	136.5	91.8	105.1	0.08	90
Ukraine	43.1	50.6	34.0	38.1	36.0	39
Kazakhstan	27.5	27.9	34.5	27.5	24.0	18
Other	20.5	22.4	18.9	18.4	18.0	18

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<sup>\*</sup> Measured in bunker weight, that is, gross output from the combine which includes excess moisture, unripe and damaged kernels, weed seeds, and other trash. For comparison with US or other country grain output, an average discount of 11 percent should be applied.

0	Baltics.	. Reg	jion	nal	Soviet ]	pres	s ac	ccounts	s and v	weatl	ner da	ata in	dicate	3
	that as	much	as	50	percent	of	the	grain	fields	s in	some	areas	were	
	damaged	durir	ng t	he	winter.			٠						

0	Moldavia and the Southern	Ukraine.	Low soil	moisture	since	last	fall
	caused stunted and sparse	winter gra	in develo	pment-			25 <b>X</b> 1
[					$\neg$	2	25X1

- o Central and Upper Volga Regions of the Russian Republic. A cool, wet spring has carried over into the early summer ending the spring sowing campaign prematurely and generally retarding overall crop development. As a result the total harvested grain area will be several million hectares below normal.
- o <u>Transcaucasus</u>. According to Soviet press accounts and weather data, flooding and hail caused sizeable winter grain losses and delayed corn sowing in the late spring.

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Another bout of hot, dry weather in the spring grain areas could further erode yields. Moreover, cool, wet weather in much of the European USSR is retarding the development of both winter and spring grains. If these conditions persist into the harvesting periods, getting the crops in could be unusually difficult. In some areas, late-sown spring grains could also be subject to early killing frosts or snow. In these circumstances, potential output would fall further, and a crop smaller than even last year's unofficially reported 158-million-ton harvest could result.

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A few developments might enhance current prospects, but the additional production would not amount to more than about 3 million tons:

- o Recent rains in European USSR should be particularly beneficial for corn in the southern Ukraine and Moldavia.
- o The winter grain area might be somewhat larger than we initially predicted, perhaps by as much as one million hectares. Winter grain yields are usually substantially higher than yields of spring grains.

#### Grain Requirements

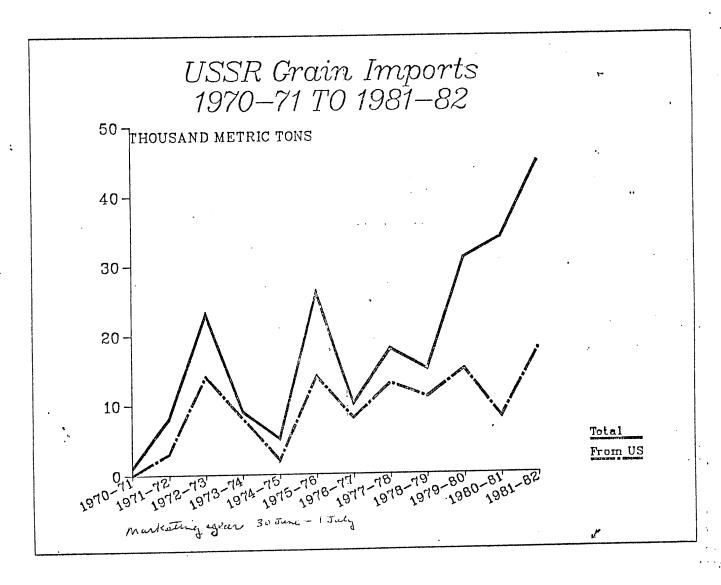
in:

With a grain crop of 165 million tons, we estimate that the USSR will need about 65 million tons of grain as well as large imports of meat and vegetable oil to maintain food supplies and the quality of the Soviet diet at current levels. Last year's grain crop was supplemented with 45 million tons of foreign grain—excluding rice— and, we believe, a substantial drawdown of domestic grain stocks. We have no information on the current level of grain stocks but believe that following three consecutive poor harvests, stocks are at minimal levels. Thus, Soviet leaders will be under great pressure to import as much grain as possible.

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The USSR will be unable to import all the grain it needs, however. Based we calculate that the Soviet distribution system can accomodate only about 50 million tons of grain during the marketing year that ends 30 June 1983 (MY 1983). The failure to make up some 15 million tons of its grain shortfall with imports would likely result

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Soviets	Expand Capacity to Import Grain
The Sov	iets have worked steadily over the past year to increase their grain capacity.
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0	Higher capacity equipment to unload grain has been installed.
In addi unloade	tion, more grain is being transferred to small vessels that can be d at riverports and other shallow water harbors in the USSR.
The maj	or Soviet ports have been operating at or near capacity in recent
0	Foreign shipments reportedly totaled 4.5 million tons in March, 4.8 million in April, and 5 Million in May. The previous record was 4.1 million tons in September 1981.
O	Even with these record deliveries, the time a ship spends in Soviet ports has been cut from an average of 47 days late last year to 24

25X1

days. .

- o Distress slaughtering of livestock herds—especially hogs. Even so, meat production in 1982 is likely to fall below 15 million tons.
- o Per capita avilability of meat and dairy products falling about 3 percent to 49 kilograms, even with meat imports at last year's level of 1 million tons.

0	Intensified	$f\infty d$	shortages	and	rationing—already widespread	
						25X1

#### Alternatives to US Grain

Moscow should be able to find as much grain as it is capable of importing. Grain trade sources expect the USSR to purchase substantial amounts of grain from the United States, perhaps as much as the 15.5 million tons bought last year. We think this judgement is correct. But if US grain were unavailable or if the Soviets decide to avoid US suppliers the USSR could meet nearly all of its import requirements from non-US sources. In that case, the Soviet search for grain in this marketing year would concentrate on seven exporters that account for about 40 percent of world grain trade. These sellers have an estimated export potential of roughly 83 million tons in MY 1983 (see Table 2). About half of this amount will be sold to non-Soviet customers if they take the same market shares as in recent years. Of the remaining 42 million tons, 17 million tons may already be spoken for by Moscow. The USSR could theoretically purchase all or most of the remaining 25 million tons if it acts early in each sellers' marketing year. 25X1

Viewed individually, the grain export potential of US competitors varies markedly:

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World Grain Supply Outlook

World grain markets during MY 1983 will be marked by continued high levels of production and substantial additions to already record stocks. Among the major exporters, only the United States, with its acreage reduction program, is taking action to reduce output in the face of low prices and glutted markets. Other major exporters have announced efforts to maximize production and exports.

- o The Argentine Government recently asked producers to increase the area sown to wheat by 25 percent and, despite the absence of government incentives to encourage participation, planted area for the current crop rose about 27 percent to 8 million hectares. The producers' tight financial situation and the resulting need for cash stimulated the acreage increase. Most of the increased wheat acreage came at the expense of pasture, so the area of coarse grains to be planted in October may also increase.
- Canadian farmers have increased wheat acreage by about 3 percent.

  Because last year's yields were exceptionally high, however,
  production may not increase. Coarse grain production may decline
  slightly as relative prices encourage planting rapeseed instead of
  corn and barley.
- Australian producers planted a record wheat area this year but drought will cut yields. This year's crop—which will be harvested beginning in December—may be only about 13 million tons (compared with the previous crop of 16.4 million tons), but the outcome will depend on rainfall in the next two months. Total grain production is expected to reach 19 million tons. Because last year's crop permitted some additions to stocks, this year's exports are unlikely to decline.

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o EC wheat production may set a new record as high intervention prices have encouraged a 2 percent increase in acreage and the adoption of higher yielding varieties.	
At years end, stocks worldwide will probably be at record levels despite a 25-million-ton increase in grain consumption in MY 1983. Based on data fro the US Department of Agriculture, we expect wheat inventories to be approximately 11 percent higher than in MY 1982, while coarse grain stocks may	OM
grow by about 8 percent. Most of the additions to stocks will be in the United States as part of the farmer—owned grain reserve. 25)	- X1
The potential for a bumper world harvest will continue to exert a strong bearish influence on prices, prolonging the buyer's market for grain. Export	_

prices recently reached three year lows—about equal to prices received in the mid-1970s—but have not significantly boosted import demand because of global

recession. Sales to the USSR could stimulate an otherwise glutted and

moribund world market.		-		25X1
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- Canada will export about 24 million tons of grain in MY 1983. Of this amount, approximately 10 million tons is committed to traditional non-Soviet customers. Of the remaining 14 million tons, trade sources report Canada has agreed to sell 10 million tons to Moscow and would be able and willing to sell the remaining 4 million tons to the Soviets if they seek it.
- Argentina has become a grain trade minion of the Soviet Union in the aftermath of the US partial grain embargo in January 1980. Of 17 million tons of potential exports this year, fully 75 percent, or about 12.5 million tons will likely go to the USSR. Of the remaining 4.5 million tons, only about 2.5 million tons are earmarked for traditional customers. This leaves about 2 million tons which could be purchased by Moscow.
- Australia will export roughly 14 million tons of grain in MY 1983.

  We believe Australian exports to the USSR could reach 4 million tons. Canberra has no plans to push exports to the Soviets, continuing instead to concentrate marketing efforts in the Pacific Basin.
- o The EC will export about 19 million tons of grain in MY 1983,
  probably servicing European and African customers first with about 13
  million tons. Moscow would, under normal circumstances, take about
  3 million tons but could be a buyer for an additional 3 million tons
  that should be available.

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Potential Non US Grain Supplies for the USSR in MY 1983
(million tons)

	Current Production	Total Export	Committed Exp	∞rts <sup>1</sup> / USSR	Uncommitted
Argentina Australia Canada Eastern Europe EC South Africa Thailand	28.9 19.0 47.8 96.2 124.6 11.4 4.6	17.0 14.0 24.3 1.0 19.0 4.3	2.5 10.0 10.0 0 13.0 4.3 0.6	5.5 0 10.0 <sup>2</sup> / 1.0 0 0	9.0 4.0 4.3 0 6.0 0
Total	332.5	82.6	40.4	17.0	25.2

<sup>1/</sup> The figures for non-USSR committed exports include both long-term grain agreements and likely exports to major traditional customers.

Confidential

<sup>2/</sup> A minimum of 4.5 million tons is guaranteed under the current Long Term Agreement and, according to grain trade sources Canada has agreed to sell 10 million tons during this marketing year.

In addition to the grain available from major US competitors, Moscow
could tap Thailand and Eastern Europe for 3.4 million tons. Thus, Moscow
could capture up to 42 million tons of grain from non-US sources. Once these
sources were exhausted, the USSR could probably bid away another 5 to 7
million tons of grain from traditional customers of major exporters, albeit at
premium prices, and thereby meet practically all their import needs from non-
US exporters. 25X1

## Risks in Relying on Non-US Suppliers

Although we believe Moscow could purchase from non-US suppliers most, and perhaps all, of the grain its ports and rail system can handle, a number of accommodations would be necessary. Even with a glutted market, the withdrawal of the United States from the Soviet market—or an awareness among exporters and traders of Moscow's wish to avoid US purchases—would force the USSR to pay a premium for its grain. In instances where the Soviets bid grain away from traditional customers, premiums could be high. During the US partial grain embargo, Moscow paid premiums for Argentine grain rather than do without imports.

If Moscow decides to seek the maximum amount of non-US grain its logistic system can handle, it will have less flexibility in scheduling imports. Of the world's major grain exporters, only the United States has the ability to export large amounts throughout the year. The situation is different for US competitors:

O Canadian grain shipments to all destinations taper off each year as winter closes the St. Lawrence seaway and slows down westbound rail shipments through the Rockies until the following spring. During MY 1981, only 13 percent of total Canadian grain exports to the USSR

were shipped during the four months of December-March, and the figure reached only 17 percent in MY 1982.

- o Argentina has limited storage capacity and generally moves grain out in cycle with the harvests. Wheat shipments begin with the new crop each December and are generally completed by May. Corn and sorghum are harvested beginning in March and are usually shipped by September.
- o Port strikes by the numerous Australian unions involved in handling grain exports are a recurrent problem. Though better than Argentina's, Australia's storage capacity also limits Canberra's flexibility in export scheduling.

The mix of grains is also a potential constraint on what Moscow buys. In the past, the Soviets generally imported grain in a ratio of 60 percent coarse grains and 40 percent wheat. During the 1980 US embargo, the share of wheat increased to 46 percent. Since then, the mix of coarse grains and wheat has been gradually approaching the pre-embargo levels. To maintain this ratio the Soviets would need US coarse grains. About the best they can expect is 19 million tons of coarse grain from non-US sources. Thus, to avoid US grain, the USSR would have to substitute 7 million tons of higher priced wheat that would have to be bid away from exporters' traditional customers.

# Financing Grain Imports

This year's grain imports will probably cost \$6 to \$6.5 billion, an amount equal to nearly 20 percent of the USSR's total hard currency bill.

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Although Moscow's financial position has improved in recent months, the USSR probably will continue to rely on short-term credits to help finance grain purchases. Loans obtained earlier this year are coming due, and a repayment bulge is expected in August-September. The USSR probably will not encounter many problems in obtaining the necessary credit for new grain purchases. Three major sources of credit are open to Moscow:

- o International grain trading companies are able to provide financing because of their longstanding credit relations with major banks. By extending short-term credit to purchasers, using the firm's line of credit, the trader can profit from both the sale and the credit arrangement. The companies can also help arrange direct credit between banks and grain buyers.
- o Commercial banks independently will provide short-term, unsecured loans to grain-buying countries that are deemed creditworthy.

  Interest on loans is pegged to the US prime rate or the London Interbank Offered Rate (LIBOR) on most US-financed grain.
- o Government financial assistance is available from some exporters to promote grain sales. Support can take a variety of forms, from providing direct credit to guaranteeing private loans. Canada and Australia both have the ability to offer government guaranteed loans. The Canadian Wheat Board has already made \$1 billion in credit available to the Soviets for grain purchases during the year beginning 1 August.

Most Western banks still consider the USSR a good credit risk on economic grounds. Only US banks have been reluctant to lend to the Soviets, citing the current political climate as the overriding factor. Bankers will probably continue to consider the USSR a good credit risk unless the maturity structure

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of Soviet debt shifts sharply in favor of short-term debt, bringing into question Moscow's ability to repay its debt when due. Barring such circumstances, Moscow should be able to obtain the desired amount of credits for grain purchases from West European banks—although some banks may be reaching their lending limit to the USSR—and from mid-Eastern banks.

Tatemasing Activity	
i	in early <sup>25X1</sup>
July told US Embassy officials that grain purchasing activity has be	en
especially slack. Since May, the USSR reportedly has bought only ab	out 6
million tons of grain—all from Canada and Argentina. Unless orders	pick up
soon, imports in August-September will be under 3 million tons a mon	th—less
than three-fourths of the monthly average needed to import 50 million	n tons for
the year	25 <b>V</b> 1

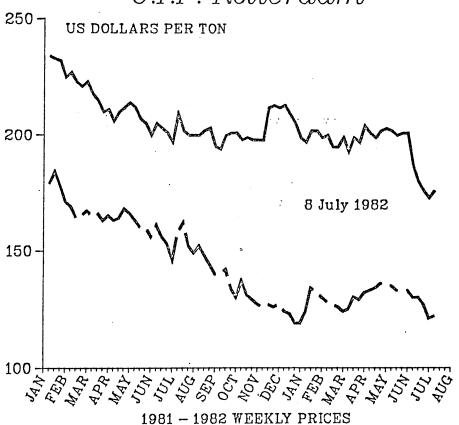
Several factors may be contributing to the purchasing lull.

Durchaging Activity

- o The sudden downturn in crop prospects in the last six weeks may well have taken Moscow by surprise. The Soviet grain buying agency until recently may have seen no reason to request additional buying authority. (If so, increased buying activity should be evident in the near future.)
- o Moscow may be delaying purchases in the hope of getting better terms. The outlook for bumper harvests in most major grain producing countries has brought lower prices which may be encouraging <a href="Eksportkhleb">Eksportkhleb</a> to delay purchases. The Soviets may also be hoping that interest rates on grain-associated borrowing will fall soon.
- o Soviet planners may have been given orders to change foreign trade priorities in favor of buying more grain, but have not yet managed to

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reallocate available hard curency. Non-agricultural imports are already under tight control, so further cuts would be more difficult.

- Political considerations may also be affecting Soviet grain-buying strategy. Moscow is well aware of the debate in the United States 0 over the US-USSR long term grain agreement. Many traders believe that Moscow's waiting game is an effort to signal Washington of its displeasure over US economic sanctions. Moreover, Soviet leaders may judge that the Soviet Union's abscence from the market is creating uncertainty over US export prospects-uncertainty that they hope will be translated into stepped up domestic US pressures to normalize Soviet-US trade relations.
  - With the weakening of Brezhnev's political position in the last several months, opposition may have developed within the Politburo over the USSR's increasing reliance on foreign grain. Conceivably, some in the leadership may now be more willing to question the wisdom of this approach and may believe that less emphasis should be placed on developing meat as a major element in the Soviet diet.

Whatever the reasons for the buying lull, the risks to the Soviets of waiting much longer are mounting. Delaying purchases is compressing delivery schedules, threatening port congestion, and limiting the amount of grain that can be imported. Moreover, the longer the Soviets defer purchases of Western grain, the greater the risk that they will overload internal transport facilities during late summer and early fall when domestic crops must be moved to storage and oil carried to export ports. On balance, we judge that the Soviet leadership will decide to continue to support the Brezhnev livestock program to the hilt and thus resume grain purchasing soon. US grain companies

are counting on Soviet purchases during the next few months to pull the US grain market out of the doldrums. 25X1

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Soviet Grain Purchasing Policy

Little is known in the West about Soviet decision-making on grain imports. In part the lack of knowledge stems from the veil of secrecy with which Moscow keeps grain import matters hidden because this gives it an advantage in dealing with the international market. The highly centralized decision-making process helps to maintain secrecy and facilitates implementing policy decisions. For example, in 1972 Moscow was able to keep news of its grain buying out of the press until after the purchases were made.

Who decides grain import policy and the size and timing of purchases is not known. Because grain imports are critical in meeting food requirements and are enormously expensive—currently running over \$6 billion, one-fifth of all hard currency imports—we believe the major decisions are made in the Politburo. These senior officials probably decide the magnitude of imports each year, leaving it to the Soviet grain buying agency, Eksportkhleb, headed by Viktor Pershin since 1974, to implement the policy. Eksportkhleb maintains contacts with the international grain trading companies and agricultural officials in exporting countries concerning the size, timing, and origin of purchases and are especially secretive about the size of their own grain crop.

The timing of grain purchases is particularly difficult to predict. Inasmuch as the bulk of the Soviet grain harvest occurs from late summer through early fall, Soviet officials usually cannot know with certainty until late summer their grain import needs. Soviet buyers—whose purchases constituted about 20 percent of worldwide grain imports last year—endeavor to time their purchases to avoid price runups. This year the squeeze on hard currency holdings, has also forced the Soviets to consider financing when making purchases.

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